

SUPPORT CONNECT KNOWLEDGE SERIES

Augment Your Problem-solving Capability

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Welcome to the Finacle Global Support fortnightly knowledge bulletin! We're here to offer solutions for common challenges, share valuable tips, provide knowledge bytes, and keep you updated. Each edition is meticulously curated to ensure we share best practices and known resolutions. In this issue, you'll find the following articles:

- **Connect 24 Setup to Manage Network Delay**
- **Enhancing Security Measures for Android Mobile Applications**

So, let's start reading!

Connect 24 Setup to Manage Network Delay

Product: Finacle Connect24 | **Version:** 10.2.18 onwards

In some cases, requests from external channels are reaching the **CBC** after a significant delay primarily due to network latency. Such delays can cause the **CBC** to process requests that have already expired at the channel end, resulting in transaction inconsistencies.

To address this, a feature has been introduced to prevent delayed requests from being processed by **CBC** if the time difference exceeds a specified threshold.

Setup and Configurations:

- Set the environment variable in the **CBC** start file to define the maximum allowed time difference (in seconds). **ALL_TIME_DIFF_ALLOWED=20**. This setting applies the time validation globally across all channels.
- To configure the time difference validation for specific channels, replace **ALL** with the relevant channel ID as shown below
COR_TIME_DIFF_ALLOWED=20
UPI_TIME_DIFF_ALLOWED=20

The above examples show the configuration for **COR** and **UPI** channels. Similar settings can be applied for any other channels as required.

Header validation:

- The **CBC** application compares the request's **FIELD12** timestamp (representing the time at the channel) with the **CBC**'s system time
- If the difference exceeds the configured threshold (**<Channel ID>_TIME_DIFF_ALLOWED**), the **CBC** discards the requests without further processing.

Note: This parameter should be used **only for channels** where the system time at the channel and the **CBC** are expected to remain in close synchronization.

Enhancing Security Measures for Android Mobile Applications

Product: Finacle Mobile Banking | **Version:** 11.2.x and above

In Finacle mobile banking, protecting customer-sensitive data is of utmost priority. Android offers a built-in mechanism to strengthen the security of the Mobile app and help mitigate risks related to screen capture and unauthorized content sharing. This can be achieved by setting up a parameter called **FLAG_SECURE**.

Why FLAG_SECURE?

When **FLAG_SECURE** is enabled, it ensures that the app's content is treated as sensitive/secure by the Android system and it prevents the following listed below:

- Screenshots
- Screen recordings
- Content visibility during screen-sharing sessions

Enabling **FLAG_SECURE** is a simple yet effective step toward enhancing mobile app security. It aligns with regulatory expectations and reinforces customer trust by ensuring that sensitive data is never exposed through screen captures or remote viewing.

What is FLAG_SECURE?

FLAG_SECURE is a flag provided by Android in **WindowManager.LayoutParams** API. When this is enabled in the mobile **Android Package Kit** (APK), it instructs the system to treat the content as confidential. As a result:

- The content cannot be captured via screenshots or screen recordings
- The content is hidden during screen sharing or casting
- It reduces the risk of data leakage through visual capture methods

This feature is supported from **Android Honeycomb (API level 11)** onwards. To ensure compatibility, the **FLAG_SECURE** flag should only be set on devices running **Android Honeycomb** or higher.

Sample Code:

```
if (android.os.Build.VERSION.SDK_INT >= android.os.Build.VERSION_CODES.HONEYCOMB) {  
    getWindow().setFlags(WindowManager.LayoutParams.FLAG_SECURE,  
        WindowManager.LayoutParams.FLAG_SECURE);  
}
```

Add the above piece of code on the main entry point or landing screen of the mobile app to ensure the applicability of this feature. MB version-wise specific method and file where the code needs to be added is mentioned in the table below.

Version	Method	Launcher File Name
FMB 11.2.X	onCreate()	FinacleMobileApp.java
OBMB 11.9.1, 11.10, 11.11	onCreate()	speedBoatMobileMainActivity.java
OBMB 11.12 and above	Disablescreenshot()of SpeedboatSecurity.java invoked from launcher file	MainActivity.java

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- Visit the FSC portal here: <https://support.finacle.com>
- Link to FKC portal: <https://docs.finacle.com/en/signin>

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